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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0652.2310001APPLICATION NO.
09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001GROUP
1641 1642

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CY	AA1	5,726,025	03/10/1998	Kirschner, M.W., et al.,	435	7.2	04/20/1995
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
CY	AL1	WO 96/33286	10/24/1996	WIPO			Yes No
CY	AM1	WO 98/21326	05/22/1998	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	1	Altschul, S.F., et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucl. Acids Res.</i> 25:3389-3402, Oxford University Press (1997).
↓	AS	1	Amon, A., et al., "Closing the Cell Cycle Circle in Yeast: G2 Cyclin Proteolysis Initiated at Mitosis Persists until the Activation of G1 Cyclins in the Next Cycle," <i>Cell</i> 77:1037-1050, Cell Press (1994).
CY	AT	1	Araki, H., et al., "The CDC26 gene of <i>Saccharomyces cerevisiae</i> is required for cell growth only at high temperature," <i>Mol. Gen. Genet.</i> 231:329-331, Springer (1992)

EXAMINER *Cheney H. Y.*

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	2	Aristarkhov, A. et al., "E2-C, a cyclin-selective ubiquitin carrier protein required for the destruction of mitotic cyclins," <i>Proc. Natl. Acad. Sci. USA</i> 93:4294-4299, National Academy Press (1996)
↓	AS	2	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," <i>Cell</i> 86:263-274, Cell Press (1996)
CY	AT	2	Borden, K.L.B., and Freemont, P.S., "The RING finger domain: a recent example of a sequence-structure family," <i>Curr. Opin. Struct. Biol.</i> 6:395-401, Elsevier Science Ltd (1996)

EXAMINER *Christopher H K*

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>3</u>	Borden, K.L.B., et al., "In vivo and in vitro characterization of the B1 and B2 zinc-binding domains from the acute promyelocytic leukemia protooncogene PML," <i>Proc. Natl. Acad. Sci. USA</i> 93:1601-1606, The National Academy Press (1996)
CY	AS	<u>3</u>	Ciechanover, A., "The Ubiquitin-Proteasome Proteolytic Pathway," <i>Cell</i> 79:13-21, Cell Press (1994)
CY	AT	<u>3</u>	Cohen-Fix, O., et al., "Anaphase initiation in <i>Saccharomyces cerevisiae</i> is controlled by the APC-dependent degradation of the anaphase inhibitor Pds1p," <i>Genes Dev.</i> 10:3081-3093, Cold Spring Harbor Laboratory Press (1996)

EXAMINER *Christopher H. Yu*

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	4	Cvrčková, F. and Nasmyth, K., "Yeast G ₁ cyclins CLN1 and CLN2 and a GAP-like protein have a role in bud formation," <i>EMBO J.</i> 12:5277-5286, Oxford University Press (1993)
CY	AS	4	Dahmann, C., et al., "S-phase-promoting cyclin-dependent kinases prevent re-replication by inhibiting the transition of replication origins to a pre-replicative state," <i>Curr. Biol.</i> 5:1257-1269, Current Biology Ltd (1995)
CY	AT	4	Deshaies, R.J., "SCF and Cullin/RING H2-Based Ubiquitin Ligases," <i>Annu. Rev. Cell Dev. Biol.</i> 15:435-467, Annual Reviews (1999)

EXAMINER *Chris J. H. H. Y.*

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CY	AR	<u>5</u>	Ellison, M.J., and Hochstrasser, M., "Epitope-tagged Ubiquitin: A New Probe for Analyzing Ubiquitin Function," <i>J. Biol. Chem.</i> 266:21150-21157, American Society for Biochemistry and Molecular Biology, Inc. (1991)
CY	AS	<u>5</u>	Engle, D.B., et al., "A Negative Regulator of Mitosis in <i>Aspergillus</i> Is a Putative Membrane-spanning Protein," <i>J. Biol. Chem.</i> 265:16132-16137, American Society for Biochemistry and Molecular Biology, Inc. (1990)
CY	AT	<u>5</u>	Epstein, C.B. and Cross, F.R., "CLB5: a novel B cyclin from budding yeast with a role in S phase," <i>Genes Dev.</i> 6:1695-1706, Cold Spring Harbor Laboratory Press (1992)

EXAMINER Christoph HY	DATE CONSIDERED 1-14-03
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CY	AR	<u>6</u>	Fang, S., et al., "Mdm2 Is a RING Finger-dependent Ubiquitin Protein Ligase for Itself and p53," <i>J. Biol. Chem.</i> 275:8945-8951, American Society for Biochemistry and Molecular Biology, Inc. (March 2000)
CY	AS	<u>6</u>	Funabiki, H., et al., "Cut2 proteolysis required for sister-chromatid separation in fission yeast," <i>Nature</i> 381:438-441, Macmillan Magazines Ltd (1996)
CY	AT	<u>6</u>	Gershkovich, A.A. and Kholodovych, V.V., "Fluorogenic substrates for proteases based on intramolecular fluorescence energy transfer (IFETS)," <i>J. Biochem. Biophys. Methods</i> 33:135, Elsevier Science Publishers B.V. (1996)

EXAMINER <u>Chenaph H Y</u>	DATE CONSIDERED <u>1-14-03</u>
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CY	AR	7	Gieffers, C., et al., "Cullins and cell cycle control," <i>Protoplasma</i> 211:20-28, Springer-Verlag Wien (2000)
CY	AS	7	Gietz, R.D. and Sugino, A., " New yeast- <i>Escherichia coli</i> shuttle vectors constructed with in vitro mutagenized yeast genes lacking six-base pair restriction sites," <i>Gene</i> 74:527-534, Elsevier Science Publishers B.V. (1988)
CY	AT	7	Glotzer, M. et al., "Cyclin is degraded by the ubiquitin pathway," <i>Nature</i> 349:132-138, Macmillan Magazines Ltd (1991)

EXAMINER <u>Christopher H Yeh</u>	DATE CONSIDERED <u>1-14-03</u>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	8	Grossberger, R. et al., "Characterization of the DOC1/APC10 Subunit of the Yeast and the Human Anaphase-promoting Complex," <i>J. Biol. Chem.</i> 274:14500-14507, American Society for Biochemistry and Molecular Biology, Inc. (1999)
↓	AS	8	Hatfield, P.M. et al., "Cloning of Ubiquitin Activating Enzyme from Wheat and Expression of a Functional Protein in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:15813-15817, American Society for Biochemistry and Molecular Biology, Inc. (1990)
CY	AT	8	Hatfield, P.M. and Vierstra, R.D., "Multiple Forms of Ubiquitin-activating Enzyme E1 from Wheat," <i>Biol. Chem.</i> 267:14799-14803, Walter de Gruyter and Company (1992)

EXAMINER *Chungh H Y*DATE CONSIDERED *1-14-03*

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	2	Hirano, T., et al., "A Temperature-sensitive Mutation of the <i>Schizosaccharomyces pombe</i> Gene <i>nuc2+</i> That Encodes a Nuclear Scaffold-like Protein Blocks Spindle Elongation in Mitotic Anaphase," <i>J. Cell Biol.</i> 106:1171-1183, Rockefeller University Press (1988)
CY	AS	2	Holloway, S.L., et al., "Anaphase Is Initiated by Proteolysis Rather Than by the Inactivation of Maturation-Promoting Factor," <i>Cell</i> 73:1393-1402, Cell Press (1993)
CY	AT	2	Honda, R. and Yasuda, H., "Activity of MDM2, a ubiquitin ligase, toward p53 or itself is dependent on the RING finger domain of the ligase," <i>Ocogene</i> 19:1473-1476, Macmillan Magazines Ltd (March 2000)

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CY	AR	<u>10</u>	Irniger, S., et al., "Genes Involved in Sister Chromatid Separation Are Needed for B-Type Cyclin Proteolysis in Budding Yeast," <i>Cell</i> 81:269-277, Cell Press (1995)
↓	AS	<u>10</u>	Jackson, P.K., "Cell cycle: Cull and destroy," <i>Curr. Biol.</i> 6:1209-1212, Current Biology Ltd (1996)
CY	AT	<u>10</u>	James, S.W., et al., "The <i>Aspergillus nidulans</i> bime (blocked-in-mitosis) gene encodes multiple cell cycle functions involved in mitotic checkpoint control and mitosis," <i>J. Cell Sci.</i> 108:3485-3499, The Company of Biologists Ltd (1995)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>11</u>	Joazeiro, C.A.P., et al., "The Tyrosine Kinase Negative Regulator c-Cbl as a RING-Type, E2-Dependent Ubiquitin-Protein Ligase," <i>Science</i> 286:309-312, American Association for the Advancement of Science (1999)
CY	AS	<u>11</u>	Joazeiro, C.A. and Weissman, A.M., "RING Finger Proteins: Mediators of Ubiquitin Ligase Activity," <i>Cell</i> 102:549-552, Cell Press (September 2000)
CY	AT	<u>11</u>	Juang, Y.-L., et al., "APC-Mediated Proteolysis of Ase1 and the Morphogenesis of the Mitotic Spindle," <i>Science</i> 275:1311-1314, American Association for the Advancement of Science (1997)

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Chris Upk HVL

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CY	AR	12	Kamura, T. et al., "Rbx1, a Component of the VHL Tumor Suppressor Complex and SCF Ubiquitin Ligase," <i>Science</i> 284:657-661, American Association for the Advancement of Science (1999)
CY	AS	12	King, R.W., et al., "A 20S Complex Containing CDC27 and CDC16 Catalyzes the Mitosis-Specific Conjugation of Ubiquitin to Cyclin B," <i>Cell</i> 81:279-288, Cell Press (1995)
CY	AT	12	Kipreos, E.T., et al., "cul-1 Is Required for Cell Cycle Exit in <i>C. elegans</i> and Identifies a Novel Gene Family," <i>Cell</i> 85:829-839, Cell Press (1996)

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CY	AR	<u>13</u>	Kramer, E.R. et al., "Activation of the human anaphase-promoting complex by proteins of the CDC20/Fizzy family," <i>Curr. Biol.</i> 8:1207-1210, Current Biology Ltd (1998)
↓	AS	<u>13</u>	Lamb, J.R., et al., "Cdc16p, Cdc23p and Cdc27p form a complex essential for mitosis," <i>EMBO J.</i> 13:4321-4328, Oxford University Press (1994)
CY	AT	<u>13</u>	Lamond, A.I., and Mann, M., "Cell biology and the genome projects - a concerted strategy for characterizing multiprotein complexes by using mass spectrometry," <i>Trends Cell Biol.</i> 7:139-142, Elsevier Science Ltd (1997)

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CY	AR	<u>14</u>	Längle-Rouault, F. and Jacobs, E., "A method for performing precise alterations in the yeast genome using a recyclable selectable marker," <i>Nucl. Acids Res.</i> 23:3079-3081, Oxford University Press (1995).
CY	AS	<u>14</u>	Leveron, J.D. et al., "The APC11 RING-H2 Finger Mediates E2-Dependent Ubiquitination," <i>Mol. Biol. Cell</i> 11:2315-2325, The American Society for Cell Biology (July 2000)
CY	AT	<u>14</u>	Levkowitz, G. et al., "Ubiquitin Ligase Activity and Tyrosine Phosphorylation Underlie Suppression of Growth Factor Signaling by c-Cbl/Sli-1," <i>Mol. Cell</i> 4:1029-1040, Cell Press (1999)

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Christopher H. Y.

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0652.2310001APPLICATION NO.
09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001GROUP
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U.S. PATENT DOCUMENTS

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>15</u>	Lorick, K.L., et al., "RING fingers mediate ubiquitin-conjugating enzyme (E2)-dependent ubiquitination," <i>Proc. Natl. Acad. Sci. USA</i> 96:11364-11369, National Academy Press (1999)
↓	AS	<u>15</u>	Luca, F.C., et al., "Both cyclin AΔ60 and BA97 are stable and arrest cells in M-phase, but only cyclin BA97 turns on cyclin destruction," <i>EMBO J.</i> 10:4311-4320, Oxford University Press (1991)
↓	AT	<u>15</u>	MacKelvie, S.H., et al., "The <i>Saccharomyces cerevisiae</i> Gene SDS22 Encodes a Potential Regulator of the Mitotic Function of Yeast Type 1 Protein Phosphatase," <i>Mol. Cell. Biol.</i> 15:3777-3785, American Society for Microbiology (1995)

EXAMINER

Christopher H. K.

DATE CONSIDERED

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09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>16</u>	Mann, M. and Wilm, M., "Error-Tolerant Identification of Peptides in Sequence Databases by Peptide Sequence Tags," <i>Anal. Chem.</i> 66:4390-4399, American Chemical Society (1994).
↓	AS	<u>16</u>	Matayoshi, E.D. et al., Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," <i>Science</i> 247:954-958, American Association for the Advancement of Science (1990)
	AT	<u>16</u>	Mathias, N., et al., "Cdc53p Acts in Concert with Cdc4p and Cdc34p To Control the G1-to-S-Phase Transition and Identifies a Conserved Family of Proteins," <i>Mol. Cell. Biol.</i> 16:6634-6643, American Society for Microbiology (1996)

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Gmachl, et al.FILING DATE
06/29/2001

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>17</u>	Morgan, D.O., "Regulation of the APC and the exit from mitosis," Nat. Cell Biol. 1:E47-E53, Macmillan Publishers, Ltd (1999)
↓	AS	<u>17</u>	Muhlrad, D. et al., "A Rapid Method for Localized Mutagenesis of Yeast Genes," Yeast 8:79-82, John Wiley & Sons Ltd (1992)
↓	AT	<u>17</u>	Murray, A.W. et al., "The role of cyclin synthesis and degradation in the control of maturation promoting factor activity," Nature 339:280-286, Macmillan Magazines, Ltd (1989)

EXAMINER

Christopher H. Ye

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0652.2310001APPLICATION NO.
09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001

GROUP

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	18	Murray, A., "Cell Cycle Extracts" in Meth Cell Biol., Kay, B. and H. Peng, eds., Academic Press, Inc., San Diego, CA 36:581-605 (1991)
I	AS	18	Nasmyth, K., "The Identification of a Second Cell Cycle Control on the HO Promoter in Yeast: Cell Cycle Regulation of SW15 Nuclear Entry," Cell 62:631-647 (1990)
2	AT	18	Neubauer, G., et al., "Identification of the proteins of the yeast U1 small nuclear ribonucleoprotein complex by mass spectrometry," Proc. Natl. Acad. Sci. USA 94:385-390 (1997)

EXAMINER

Chung H H Y

DATE CONSIDERED

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0652.2310001	APPLICATION NO. 09/893,443
	APPLICANT Gmachl, et al.	
	FILING DATE 06/29/2001	GROUP 1641 1642

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>19</u>	O'Donnell, K.L., et al., "bimA encodes a member of the tetratricopeptide repeat family of proteins and is required for the completion of mitosis in <i>Aspergillus nidulans</i> ," J. Cell Sci. 99:711-719, The Company of Biologists Ltd (1991)
CY	AS	<u>19</u>	Ohta, T. et al., "ROC1, a Homolog of APC11, Represents a Family of Cullin Partners with an Associated Ubiquitin Ligase Activity," Mol. Cell 3:535-541, Cell Press (1999)
CY	AT	<u>19</u>	Osmani, S.A., et al., "Spindle Formation and Chromatin Condensation in Cells Blocked at Interphase by Mutation of a Negative Cell Cycle Control Gene," Cell 52:241-251, Cell Press (1988)

EXAMINER <i>Christopher H. Y.</i>	DATE CONSIDERED 1-14-03
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FORM PTO-1449
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 0652.2310001

APPLICATION NO.
 09/893,443

APPLICANT
 Gmachl, et al.

FILING DATE
 06/29/2001

GROUP
 1641 1642

U.S. PATENT DOCUMENTS

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	20	Page et al., "The anaphase-promoting complex: new subunits and regulations," <i>Ann. Rev. Biochem.</i> 68:583-609, Palo Alto Ca Annual Reviews (1999)
CY	AS	20	Peters, J.-M., "Proteasomes: protein degradation machines of the cell," <i>Trends Biochem Sci</i> 19:377-382, Elsevier Science Ltd (1994)
CY	AT	20	Peters, J.-M., et al., "Identification of BIME as a Subunit of the Anaphase-Promoting Complex," <i>Science</i> 274:1199-1201, American Association for the Advancement of Science (1996)

EXAMINER *Christopher H. Y.*

DATE CONSIDERED *1-14-03*

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FORM PTO-1449

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0652.2310001APPLICATION NO.
09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001GROUP
~~1641~~ 1642

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>21</u>	Peters, J.-M. "Subunits and substrates of the anaphase-promoting complex," <i>Exper. Cell. Res.</i> 248:339-349, Academic Press Inc. (1999)
↓	AS	<u>21</u>	Pfleger, C.M. and Kirschner, M.W., "The KEN box: an APC recognition signal distinct from the D box targeted by Cdh1," <i>Genes Dev.</i> 14:655-665, Cold Spring Laboratory Press (March 2000)
↓	AT	<u>21</u>	Pines, J. and Hunter, T., "Isolation of a Human Cyclin cDNA: Evidence for Cyclin mRNA and Protein Regulation in the Cell Cycle and for Interaction with p34 ^{cdc2} ," <i>Cell</i> 58:833-846, Cell Press (1989)

EXAMINER *Christopher HX*DATE CONSIDERED *1-14-03*

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FORM PTO-1449

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0652.2310001APPLICATION NO.
09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001

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U.S. PATENT DOCUMENTS

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>22</u>	Rolfe, M., et al., "Reconstitution of p53-ubiquitinylation reactions from purified components: The role of human ubiquitin-conjugating enzyme UBC4 and E6-associated protein (E6AP)," <i>Proc. Natl. Acad. Sci. USA</i> 92:3264-3268, National Academy of Sciences (1995)
I	AS	<u>22</u>	Samejima, I., and Yanagida, M., "Bypassing Anaphase by Fission Yeast <i>cut9</i> Mutation: Requirement of <i>cut9+</i> to Initiate Anaphase," <i>J. Cell Biol.</i> 127:1655-1670, Rockefeller University Press (1994)
↓	AT	<u>22</u>	Saurin, A.J., et al., "Does this have a familiar RING?," <i>Trends Biochem. Sci.</i> 21:208-214, Elsevier Science Ltd (1996)

EXAMINER

Christopher HYL

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09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	23	Schwob, E., and Nasmyth, K., "CLB5 and CLB6, a new pair of B cyclins involved in DNA replication in <i>Saccharomyces cerevisiae</i> ," <i>Genes Dev.</i> 7:1160-1175, Cold Spring Laboratory Press (1993)
CY	AS	23	Schwob, E., et al., "The B-Type Cyclin Kinase Inhibitor p40 ^{slc1} Controls the G1 to S Transition in <i>S. cerevisiae</i> ," <i>Cell</i> 79:233-244, Cell Press (1994)
CY	AT	23	Selvin, P., "The renaissance of fluorescence resonance energy transfer," <i>Nat. Struct. Biol.</i> 7:730-734, Nature America Inc. (September 2000)

EXAMINER

Chris L. H. H. H.

DATE CONSIDERED

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	FILING DATE 06/29/2001	GROUP 1641 1642

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CY	AR	24	Seol, J.H. et al., "Cdc53/cullin and the essential Hrt1 RING-H2 subunit of SCF define a ubiquitin ligase module that activates the E2 enzyme Cdc34," <i>Genes Dev.</i> 13:1614-1626, Cold Spring Harbor Laboratory (1999)
CY	AS	24	Sherman, F., "Getting Started With Yeast," <i>Meth. Enzymol.</i> 194:3-21, Academic Press, Inc. (1991)
CY	AT	24	Shevchenko, A. et al., "Mass Spectrometric Sequencing of Proteins from Silver-Stained Polyacrylamide Gels," <i>Anal. Chem.</i> 68:850-858, American Chemical Society (1996)

EXAMINER <u>Christopher HX</u>	DATE CONSIDERED <u>1-14-03</u>
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Gmachl, et al.FILING DATE
06/29/2001

GROUP

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

cy	AR	25	Shevchenko, A. et al., "Linking genome and proteome by mass spectrometry: Large-scale identification of yeast proteins from two dimensional gels," <i>Proc. Natl. Acad. Sci. USA</i> 93:14440-14445, National Academy Press (1996)
I	AS	25	Sikorski, R.S. and Hieter, P., "A System of Shuttle Vectors and Yeast Host Strains Designed for Efficient Manipulation of DNA in <i>Saccharomyces cerevisiae</i> ," <i>Genetics</i> 122:19-27, Genetics Society of America (1989)
↓	AT	25	Sikorski, R.S. and Boeke, J.D., "In Vitro Mutagenesis and Plasmid Shuffling: From Cloned Gene to Mutant Yeast," <i>Meth. Enzymol.</i> 194:302-318, Academic Press, Inc. (1991)

EXAMINER

Christopher M. E.

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	FILING DATE 06/29/2001	GROUP 1641 1642

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CY	AR	26	Skowrya, D. et al., "Reconstitution of G ₁ Cyclin Ubiquitination with Complexes Containing SCF ^{Grr1} and Rbx1," <i>Science</i> 284:662-665, American Association for the Advancement of Science (1999)
↓	AS	26	Starborg, M., et al., "A Novel Murine Gene Encoding a 216-kDa Protein Is Related to a Mitotic Checkpoint Regulator Previously Identified in <i>Aspergillus nidulans</i> ," <i>J. Biol. Chem.</i> 269:24133-24137, American Society for Biochemistry and Molecular Biology (1994)
↓	AT	26	Sudakin, V., "The Cyclosome, a Large Complex Containing Cyclin-Selective Ubiquitin Ligase Activity, Targets Cyclins for Destruction at the End of Mitosis," <i>Molec. Biol. Cell</i> 6:185-198, The American Society for Cell Biology (1995)

EXAMINER <i>Chunghu H X</i>	DATE CONSIDERED <i>1-14-03</i>
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FORM PTO-1449

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09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001GROUP
1641 1642

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	AO						Yes No
	AP						Yes No

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CY	AR	27	Surana, U., et al., "Destruction of the CDC28/CLB mitotic kinase is not required for the metaphase to anaphase transition in budding yeast," <i>EMBO J.</i> 12:1969-1978, Oxford University Press (1993)
CY	AS	27	Tan, P. et al., Recruitment of a ROC1-CUL1 Ubiquitin Ligase by Skp1 and HOS to Catalyze the Ubiquitination of I κ B α ," <i>Mol. Cell</i> 3:527-533, Cell Press (1999)
CY	AT	27	Thompson, J.D., et al., "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice," <i>Nucl. Acids Res.</i> 22:4673-4680, Oxford University Press (1994)

EXAMINER *Christopher H. Ye*DATE CONSIDERED
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FORM PTO-1449

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09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001GROUP
164T 1642

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	28	Tugendreich, S., et al., "Linking yeast genetics to mammalian genomes: Identification and mapping of the human homolog of CDC27 via the expressed sequence tag (EST) data base," <i>Proc. Natl. Acad. Sci. USA</i> 90:10031-10035, National Academy Press (1993)
↓	AS	28	Tugendreich, S., et al., "CDC27Hs Colocalizes with CDC16Hs to the Centrosome and Mitotic Spindle and Is Essential for the Metaphase to Anaphase Transition," <i>Cell</i> 81:261-268, Cell Press (1995)
↓	AT	28	Tyers, M. and Jorgensen, P., "Proteolysis and the cell cycle: with this RING I do thee destroy," <i>Curr. Opin. Genet. Dev.</i> 10:54-64, Current Biology Ltd (February 2000)

EXAMINER

Christopher HX

DATE CONSIDERED

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09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001GROUP
1641 1642

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	29	Willems, A.R., et al., "Cdc53 Targets Phosphorylated G1 Cyclins for Degradation by the Ubiquitin Proteolytic Pathway," Cell 86:453-463, Cell Press (1996)
↓	AS	29	Wilm, M. et al., "Parent Ion Scans of Unseparated Peptide Mixture," Anal. Chem. 68:527-533, American Chemical Society (1996)
↓	AT	29	Wilm, M. et al., "Femtomole sequencing of proteins from polyacrylamide gels by nano-electrospray mass spectrometry," Nature 379:466-469, Macmillan Magazines Ltd (1996)

EXAMINER

Christopher H. Yoon

DATE CONSIDERED

1-14-03

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0652.2310001APPLICATION NO.
09/893,443APPLICANT
Gmachl, et al.FILING DATE
06/29/2001GROUP
~~1642~~ 1642

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	30	Xie, Y. and Varshavshky, A., "The E2-E3 interaction in the N-end rule pathway: the RING-H2 finger of E3 is required for the synthesis of multiubiquitin chain," <i>EMBO J.</i> 18:6832-6844, Oxford University Press (1999)
↓	AS	30	Yokouchi, M. et al., "Ligand-induced Ubiquitination of the Epidermal Growth Factor Receptor Involves the Interaction of the c-Cbl RING Finger and ObcH7," <i>J. Biol. Chem.</i> 274:31707-31712, American Society of Biochemistry and Molecular Biology, Inc. (1999)
↓ CY	AT	30	Yu, H. et al., "Identification of a novel ubiquitin-conjugating enzyme involved in mitotic cyclin degradation," <i>Curr. Biol.</i> 6:455-466, Current Biology Ltd (1996)

EXAMINER

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06/29/2001GROUP
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	<u>31</u>	Yu, H. et al., "Identification of a Cullin Homology Region in a Subunit of the Anaphase-Promoting Complex," <i>Science</i> 279:1219-1222, American Association for the Advancement of Science (1998)
↓	AS	<u>31</u>	Zachariae, W., and Nasmyth, K., "TPR Proteins Required for Anaphase Progression Mediate Ubiquitination of Mitotic B-type Cyclins in Yeast," <i>Mol. Biol. Cell</i> 7:791-801, American Society for Cell Biology (1996)
CY	AT	<u>31</u>	Zachariae, W., et al., "Identification of Subunits of the Anaphase-Promoting Complex of <i>Saccharomyces cerevisiae</i> ," <i>Science</i> 274:1201-1204, American Association for the Advancement of Science (1996)

EXAMINER

Christopher H Z

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06/29/2001GROUP ~~1641~~ 1642

U.S. PATENT DOCUMENTS

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	32	Zachariae, W. et al., "Mass Spectrometric Analysis of the Anaphase-Promoting Complex from Yeast Identification of a Subunit Related to Cullins," <i>Science</i> 279:1216-1219, American Association for the Advancement of Science (1998)
↓	AS	32	Zachariae, W. and Nasmyth, K., "Whose end is destruction: cell division and the anaphase-promoting complex," <i>Genes Dev.</i> 13:2029-2058, Cold Spring Harbor Laboratory (1999)
↓	AT	32	Zou, H. et al., "Identification of a Vertebrate Sister-Chromatid Separation Inhibitor Involved in Transformation and Tumorigenesis," <i>Science</i> 285:418-422, American Association for the Advancement of Science (1999)

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09/893,443APPLICANT
Gmachl et al.FILING DATE
06/29/2001GROUP ~~1642~~ 1642

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL1						Yes No
	AM1						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CY	AR	33	International Search Report of International Application No. PCT/EP97/06268, mailed August 5, 1998.
↓	AS	33	NCBI Entrez, GenBank Accession No. M55604, from Hatfield, P.M., et al. (Apr 1993)
↓	AT	33	NCBI Entrez, GenBank Accession No. U39317, from Jensen, J.P., et al. (Mar 1996)

EXAMINER

Christopher HX

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0652.2310001	APPLICATION NO. 09/893,443
	APPLICANT Gmachl et al.	
	FILING DATE 06/29/2001	GROUP 1641 1642

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1						Yes No
	AM1						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CY	AR	34	NCBI Entrez, GenBank Accession No. AF142059, Ohta, T., et al. (Jul 1999)
↓	AS	34	NCBI Entrez, GenBank Accession No. AF142060, from Ohta, T., et al. (Jul 1999)
CY	AT	34	NCBI Entrez, GenBank Accession No. AF247565, from Chan, A.H. et al. (Mar 2001)

EXAMINER	<i>Christopher H. E.</i>	DATE CONSIDERED	1-14-03
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0652.2310001	APPLICATION NO. 09/893,443
	APPLICANT Gmachl et al.	
	FILING DATE 06/29/2001	GROUP 1641 1642

U.S. PATENT DOCUMENTS							
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	AL1						Yes No
	AM1						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

cy	AR	35	NCBI Entrez, GenBank Accession No. U33199, from Sigalas, T. et al. (Nov 2001)
	AS	35	
	AT	35	

EXAMINER <i>Christopher HX</i>	DATE CONSIDERED 1-24-03
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